ZXir QLive Alive!

The Timex/Sinclair North American User Groups Newsletter

| Volume 3 | Number 3 | | Fall 1993 |
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T/SNUG Information

ZXir QLive Alive! is the consister of T/SNUG, the Times/Sincleir NorthAsserican User Groups,

provides news and authors support to the T/S coverently in at least four poweletters per year.

It is our soul to build and maintain a Public Domain software Shoey and dovelop

T/SNUG withen to have one chairman from every T/S user sroup who will take charge of sending us their group's weapletter contents and other correspondence for inclusion in the ZOA! Newdetter.

WC encourage your group to popy than resoletter and distribute it at runder moctmus to all your members. If you cannot copy

this noveletter, perhaps we can provide a disk with the articles on it. YOU can keep DSNUG allow for an arrest contribution of \$10 made navable to

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ZXir QLive Alive! Articles Contributions

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over about your eroup. UPLOAD a file sail it For help, contact the SYSOP by E-MAIL on

the TANNERS BOBS, mad or phone -(CATUGATarKee) 613 PARKSIDE CIR

It is rentirered that you call -H THE RYT, THAT W THE STIE-BOOK

To contribute a hardcopy, tape or disk send your inputs to:-

> DONALD LAMBERT ZXir QLive ALive! Newsletter AUDITRN IN 46705-3010

Plyme 219 925-1372 FOI software bleages, were or call the following Vice-Chairmen. When writing please psolose a LSASE

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D.G. SMITH (2008 TAPE Library & ILO)

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SHOW THE CHAIRMAN'S DESE

The number blobs have got seand the fruntration in waiting for Courses to act plus the problems of the flooding other parts of the flooding. And while there are no for flooding the problems in too dry and the groot set in too dry and the groot is browning out, but the groot to be for the flooding of the flooding to the too on me for the flooding out, but

on we go. My adventures with trying to get a 3.5 drive to work properly wen e hard fact trip down a cide road. It turned out the drive was doing what it was supposed to do. The drive turned out to be a single cided 186K 3,5 drive which means it is a 40 track drive, I thought that ell 3.5 drives were 88 track. But 1 did find a place that does not ownrohange to work on drives and when I send in some other drives 1 will report on what happens. And if you have several drives of the same make, model, etc that do not work they will try

to combine the drives to get one or more working drivee, 1 will keen you posted. Another advanture was with getting a Spectrum disk menu loader working. I was sent the disk in April and while I had the dick from the TURK library I could not get it to work with the T/S 2000 that had a Russell RPROM installed internally. I finally decided that either the TOTAL or else the computer is not working properly cince it is erratio with disk drives resardiess of whether the Spectrum EON is used. And with my symmight being just less than what I feel im made to use to molder (ostaracte) 1 twisted Bob Support's arm to get him to rut a Spectrum EPHOM on a Larken Dock Board. So on the week that the Board arrived book in my computer room I again tried to fix the Spectrum diek.

But in the process I expected to have to install the MSMO progress on the disk so I had the HELP files from the MSMO disk from the TTSD Library disk MI-25 printed out and there was a paragraph.

The Spectrum and TS 2000 series also differ in a comple of wars. The Spectrum serm has a block of programming at line 5000 which will cause the Computer to matich to the Spectrum mode, if the ATTUENDAY happens to commence from the TS 2000 mode.

commence from the TS 2008 mode. To make use of this feature year must save the seas to disk by e 2070 3000."

However, line 2000 on the disk in quention is: 2000 1000.

And line 9030 1=: 2030 205,102,0,02,3,211,244 ,201,0,0,0,

And not being a programmer I have no idea what is going on.

But being a key pumber 1
gleaned the fast that if 1 turn
on the computer while bolding
down the ENTER key all by iteelf
then the AUTOCHEAT would eiter
to LOAD and while doing so it
would surventionly kick the
computer into the Spectrum
mode.

1 used COFYLL Bl on the D. U. S. Version 4.8 disk written by Evigtion Pontyers, to come the disk. For those not femiliar with the disk or the Larken 2855 disk initerface COPYII.Bl will oppy a disk starting with track 8 (and include the original diek's title) and copy the disk 5 tracks of a time on 15 PORMATE the disk. And when done it will report if there is a bad disk in the destination drive. It is nice since you can do other

things while the computer is So in a letter to Bob Sweare cell up the MENU and POEE to Spectrum mode and he celled to verify mince he had not beerd of that before. I am boring that

this will ocume Hob to write an I sdmit that I am one that does not understand e lot of the documentation that is provided with software and bardware. And Noh chides me ebout not reading the manuals. I contend that reading the namels should not be recommery, that the proper instructions should be on the screen. However, I can also see that that can couse many extre hours of programming and in some cames the program would be far

too big for the memory ever leble. There are a lot of good progress: that I have not used simply because that I do not understand how to use them. Also, and this is not the programmer's fault the program in uning a media (like surendebenting) that I do not understand either. But I am not drifting without learning. I do use progress that not long ago that I avoided since I did not understand them, Sometimes uning an unrelated program will give me insight into another

of you were to give 100

programmers enforce that they had to use that soon you would have eany different versions that were nustoeized for their particular requirements. For an example take e look at all the versions of TASHIND 11 and MEDSIPT.

But back to the Spectrum EPROM. 1 believe that it could be inetelled in a dock board, for those that do not have the Larken interfece, end would poprate just an Hell, But I have no monitive knowledge of suih-If anyone her knowledge of such an errangement let em know how it is done so that I can pass the word on to others.

I had no idee when 1 started to get this poweletter together tunt what I would have to make up the temme. But in looking at the FDRMAT newsletters that were given to me at the Fest I see an erticle that I typed in that should interest anyone with printers that use mylon ribbons. At least it has more information that I thought available, 2/8

Timex/Sinclear NorthAserican User Group

THE THE PERSON NAMED IN TH

by Donald S. Lambert instead of worrying about mentioning some names and forgetting to contion others 1 will west his the highlights of the Dayton Commuterfest as they

The location of the T/S tables was the name as lest year except that across from un was the DMA tables/booths and DMA was the one that sponspred Computerfest. The DMA representatives Bery Sanger and pengras. And I have noted that Tan Swenson manned a booth with computers representing the hastory of computing.

Like last year, SMUS, marned by SHII lebbrish and Neil Bichultz, and the farst the Cables exactly the hastory of the same that the sam

While I arrived at the Red Roof Inn North at 3 PM (DAyton time) Fractay I was not the sarliest arrival. High Howle had arrived the previous day. He case down I-75 and reported that it was nothing but construction all the war, I was on 1-75 from the intersection with highway 38 and ronstruction was the rule of the day. In fact I wondered if I was coins to be able to exit at the proper must for the Red Roof Inn since I was again in the area of a closed right lame. However, the exit ramp was open so I could use it. The next exit ramp was closed however.

was closed however.
And to eake the wife happy I
salk to the Cracker Barrel and
bought a couple of lare of
gourest jam. And it did make her
happy.

I ran into a fellow and learned that he was there to pess on his equipment to other fellow T/Sers names he was leaving the T/S computers for another. Charlie Rosse case in from St. Louis, HO and stayed through Saturday night, I learned that he had a est of disk drives, two 720K drives, one a 3.5 and one a 5.25 in a rase for sale, I was prestly interested since I was trying to find a working 720E 3.5 drive. Duste a while later Paul Holgren arrayed and were surprised that

Frank and Carol Davis had not

arrived yet since they should have been there. Turned out that Paul had passed them when the paul had passed them with the they are not not not come same the same that the paul had been the same that the same

Even's in a group. After that Frank, Carol and Paul went over to set up for the show and on the way back the driver's window on Paul's van stuck all the way down. They could hear the electric egtor running but no action. Paul had to tope a black garbage bag over the opening. Luckaly, the motel had patroling security quards. We gathered in Hugh Howse's rose for a session before every one headed off for ted and the early rising to be at Here Arene perly the next We gathered and drove to the

the gathered and drove to the cracker turned at seven to racker turned at seven to the cracker turned and high those were also and high got the cut of the control of the c

wil rope T/Sers sessage and then I got the disk drives in their case and since the drive cable had a GL plog I tested each drive by itself using a test ribbon cable I had with me. Both drives worked just fine. So when Charles Reese arrayed I offered his a sue for the two draves, case and all and he maid to was too such but he took the eoney. I think that we are toth happy with the deal, SD NOW I AM ASSE TO HANDLE 728K 3.5 DISKS FOR FITHER THE LARREN DR THE OLISER DIRE INTERFACES FOR THE T/S After my first formy to cruise the fire next area in returned to see Ecb Swoper had Just arrived and he was draping with sevent. In fact all day faturday was very search and the selection of the first head of the first head of the first head of the first had far fewer seople in it, was far cooler Either or both days centrisited to a stop the first head far fewer seople in the mean cooler Either or both days centrisited to a stop the first head of the first head far seems for the first head for the firs

over a week. I had arrived at consistent on out a few itemas a working 3.5 720K disk drive. some 366K 5.25 dask drives. preferrable Tandon, some diak cases and maybe some odds and ends. I had the 3.5 disk drave before the doors opened and when they did I browned the fina seriest area. The chesnest disks used 5.25 and a nickle each for 3.5. I got a quantity of the 3.5 and planned to return for the 5.25 but they were oone when I did return. But I did get ages five cent ones. I found a Tandon

TH 198479 drive and not it for 84. That was exactly what I wented, But I had no idea if it worked, Another place I found a Tandon TM 100-24 drive and the may said he had a box of them out of IPM. The box was excht. dravem. Knowing that I might only out two or three working drives I bargained the price and got the box very reasonably. After I hustled the box to my car - closer than the T/SNUS table I returned and found at that vender yet another Tandon one that I had massed before. He took a look and gave it to me. It had a missing drave belt. I hed spotted some disk cases but I did not press the leaue and waited for later in the day. I did find another Tandon drive

came down and then 1 noticed that one of the posts that mount the top board was broken and pointed it out and he took far less.

the drive belt worked just fine and so did the one with the broken post, I ended up with five working drayes and four that need some tunaking, Plus & COC drive that I can not test on the board. One Tandon draws I could not test since it has an odd awatch up next to the drawn door latch that I wall have to trouble shoot to see what it is designed to do. It might be a sort of circuit to prevent writing to a disk but I am not sure at this point. I had in the post a Tendon drave that had the two wires that went to the write protect writch cut. That drawn

would read a disk and so through

the entires of writing but did

But when I did try to get a code of account on the disk desse (the disk cases were already well below neveral perion) I did get a 5.22 cases (told a fundamental to the law of the disk) plant by 3.5 disk cases (told a fundamental the law of th

that womice yet another 'Indoo But there is still interest in drive. I saked he multi for the use 'Ze coparters and there are one that I had missed before. He those that are still getting took a look and gave it to me. Into the TZ competers. He had her spotted more disk cases but I call only the the competence of the ladd not press to sake and less they had nesses and wasted for later in the day. I addresses of who to write or dut yet for the competence of t

I said that was too such he Saturday night we all were

invited to Tie Swenson's house for a 880 type supper. There was plenty to set and we all had a chance to vasat, discuss computers and programming,

Sunday norming we ate at Dob Evens and headed out to the Hara Arena, Except that this ties cost left with the cotel roce vacated and we left Hara after it was all over to go on our own, Hugh Homie had mentioned

either going back to Canada Sunday earning or Monday earning but must have left early Sunday earning since we did not see hie after Saturday. And as usual. Frank and Carol Davis planned to stay over and leave Monday.

Massako, ey wife, was a little upset over whet I brought back but not ower it when I not all the driver tested and the none working ones tossed out. I actually tossed more drives then I brought back so that setisfied her. Associat the non working drives that I already had was

one that ran slow, about 200 con and made orinding polyer. I did change the upring loaded deal on the top of the upindle that cleeped the disk to the unindle and it became a working drive, And that was a drive that

I had since last year, 9/8

ZXB1 BABIC PROGRAMMING. por Steven Vickers (Traductido y adaptedo

Capitulo i

Instalacion del IXBI ol descebalar el INGL. debe

1. Ento marcal.

2. El computador. Este tiene

por

tres para jacks (earcados 9V DC IN. FAR y MIC) una tomo de antena y una parte de su place de circuito al desculuerto. extra. No existen interruptoren. para encenderlo solo tiene que enchufarlo a la fuente de alleentacion.

The book is a bound book not spiral bound like the U. S. IXBL served for while the II. S. version runs to 134 pages; the Spanish version runs to 212 oages. Since 1 do not reed Roanish I do not know whether the extra pages is due to a sore wordy translation. I strongly suspect that this was printed for the use of the opequters that were sold to

Argenting, If it were Brazil, the book would be in Portugese since that is the official I feel that if we had a closer tie to Argentina that we would have such sore action with the ZIBI computers than we have now. The popularity of the 2X01 in Argentine is because it is the

only affordable commuter to a country of moor namels. 5/8

COMPATIBLE CARRETTE RECORDERS I ren into this information

issued by Times and realize that while late it could help some that are still using the T/S 1888 (and I presume T/8 2868) computers and the cassette eass storage systems. These epdels may only be found in flee markets and garage sales but it

COMPATIBLE CASSETTE RECORDERS. BRANDS HODELS.

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compatible with your Timex Singlary 1800, and we suggest

you avoid using your computer sodels.

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1381 KIBLINGER PLACE AUGUSTN IN 46786-3810 Phone (217) 725-1372 DE-INCIMI YOUR REDUCKS

I know that Abed Kehale did a little piece on re-inking ribbons but this is from a different source and does give multe a bit of barkground

The source is FORMAT (Vol 4 03: November 1998) which is a U. K. based newsletter for the SPECTRUM and SAM users. (Bon't

orings are in the lingo of the

ask on what SAM (a?). Terms and BC-TMYTMS ADDISTANCE FOR THE IMPECUNIOUS

OR OUT-MATRIX DISASTER?

to you reside your dot matrix printer ribbons? I do, and (I think) eave syself quite a lot of money in the process. However, before you deah out to buy a bottle of Guink, let me mention that there are quite a lot of space that you really quant to bear about.

Farstly, there is the ink. This should, of course run freely (but not too freely), and give a good dark segreeason. Here mubtle are the requirements which intimately concern the machanism of the print head. Re you probably know, the print head rapidly fires and refires a series of pins (most usually ning, eighteen or twenty four. depending on the quelity, and cost of the printer), forcing thee coto the rabbon, and therefore making loky dots on the paper behind. Anyona that has watched this will be struck by the speed at which it all happens (you can't see the pins being fired; it's all far ton musck) and the egre curious may well have burned their fingers no the top of the print head.

which can get very hot indeed. When you think about this a bit more, you can are that lubricating, clopming avaporative properties of the ink wall be very amportant in respect of the ultimate life of the print head sechanism, And a dead print heed usually seans a new printer - they are rarely economical to repair. So the use of inappropage inks (like the bottle of Buink) is bed name. let up look at things now in a

little more detail. Don White, Professor of Chesical Engineering at the University of Arizona her done a bit of research into this subject, finding that the life of a print can actually augnificently extended of ribbons are regularly coated with a lubricant - based ink of the proper type. As Don says. the elementa involved in the printing process are the print haad needles, the nylon fabric rabbon, the ink and the paper. The merhanics of the process, too, are important in respect of ribbon lifat they depand, in turn, on the strike pressure of the print - head needles, the contact time of the ribbon and the namer, the ribbon properties

(ink absorption and affinity). the int properties (viacousty, darknass) and the paper properties (porceity and ink absorption). To make thinks even more complicated, the print head consists of electrosagnotically fired netal needles individually resed to plastic cylinders: the atribe pressure of the needles can vary from 5 to 200 pounds per square inch, and contact times with the paper (which are also a function of the printing spend and strake pressure) range from 18 to 280 microseconds. Nalon fabrus in the most widely used material for ribbons - the ribben good ink absorption cheracteristics and resistance

to weer. To secrove the son absorption poto the ovigo rabbon, the woven fabric is fibres are thermally treated. transforming the filements into a highly twisted structures to improve peresity), and then a highly polarity polymer coating is added to the fabric surface to further seprove affinity for the ink, High speed printers and twenty - four pin exdels use high - density ribbons with less purposity but such improved wear remistance - so don't **** meaning ribbons between nine and tenty - four pin methines you'll probably damage print -

heads -The ink, of course, is the key commonent. It must contain e perpanent the with a minimum of insolumble perticles (non abrasive and less than three microns maximum diameter), and it must neither react chemically with nor degrade in any other way the print head mechanism. That means that it must be connetible with stainless steel. phosphor bronze, beryllius, cosper, nylon, acetal. polyethylene and polypropylene. It must also contain an isk compatible additive which is stable and which will not form funny precipitates on the print - bead, but which will form a thin protective costion on the metal surface, lubricating the works well over the whole operating temperature range. The only practical additive which neets these requirements is a willicone of one sort or another. and unk us without such an additive in pretty useless. A advise against re - inking ribbons. This advice is valid if traditional clay - based printing inks are used, for these will dry on the needle cylinder walls and clos the print base, However, this will

not occur if the proper ink is

useds indeed, Bon has postive proof that head life can be extended with regular use of a proper lak which contains the appropriate lubricant.

Finally, to give you the complete low - down, let me mention that the key elements which affect ribbon and print head life are the needle impact pressure (which can to some extent be varied by the printer user) and frequency of impact (which can not); the friction coefficient between needles and ribbon, and the print - head impact temperature, which are both profoundly affected by the presence and properties of the ink. This is because the matrix needles and the ribbon in very important. A large

proportion of the strike energy is transformed into heat and the material properties of the nylon ribbon are theaselves very manufacture to an increase in temperature. With repeated use, the needle temperature can rise near the melting point mylon (488 degrees F) causing the ribbon to soften under the needles. The mituation in made worse because ovice in a poor conductor of best. However, as long as there is plenty of lubricating ink. adhesion between hot needles and nylon surfaces is prevented, so reducing wears the presence of tot in between the filaments discipates the separt energy, Of course, once the filaments begin to dry out, the impact temperatures rises sharply. causing rapid degradation of the Tabric, a hole in the ribbon and nousibly a rained print head.

I trad out two year different re interm. The farst as Caspell's "Rabbon Defresh". The Caspell's "Rabbon Defresh". The Less than 18.08 including postage. The other device is the "Menarint Ribbon Re | Inter" from AC Enterprises. This varies in price (there was a special offer when I got mine) but in likely to be at least '40.00. It

"Ribbon Refresh" first. To use this, you prise off the lid of the ribbon. This is usually a ecculding with a number of plantic peps in it which fit into holes in the raised edge around the base. Great care in needed, as the page on the lid are easily broken off. The use of a ribbon where pens are eissing on the plantic box can result in the ribbon lamming and riging in the print head, Great care is also needed because, as - loaded gadget which difficult to replace often shoots out: beware, Once the 11d is off, the ribbon is revealed an "concertinged" fabric within the contener. But the open container, still with the ribben newscaper, preferably out of doors, Put the tube (like the one supplied with MD48) into the serosol press - spray and epray. Ton little and the resulting

print has light and dark patches. Too such and it's a the bits from outside and the ends into the enddle, and to spray those, too, It's best to have several ribbons and do thee well an edvance, so that the ink make well in and the lightest budrocarbon evanorates: I speak froe bitter experience. Unless you take care, it can be a very nessy job. Having said that, I've used "Rabbon Refresh" sucressfully since it was introduced, and have saved supply a fortune on replacano ribbons. True, the ink is not so black, nor does it last so long, but one can't have everything, can one

The "May include Rubbon Re -Inker" is a horse of a different colour. The base of the box 15 slotted, and you have to accepble and acrew a rueter of buts into this in order to class your particular shape of ribbon thightly. You then eark the start of the ribbon with a little dab of "Tippex", open the ink centralige and turn a handle which is slotted onto the ribbon drive. By Eggon FIDE types of riboons are the lesst conveniently accompdated, and I find it difficult to get the clear tight accush. The loop around the cartridge was not as tight as I would have liked. In opening the cartridge, I got the stuff all over ay hends. The sak did not run as freely as I would have liked and I couldn't hoped, so that the first ribbon sceed over - inked, whilst others had the ink applied rather catchily. The winder kept coming off the ribbons whalst it was stopped, the ink kept going, took a very long time to wind the ribbon right through to the whate "Yappex" eark again. Much of this was beginners' cluesiness, but I would not, for instance, recommend this to the

So what were the results like meanings. So what were the results like meanings of the results like super-tailor. The rather like super-tailor. The rather like super-tailor. The rather like super-tailor. The rather like super-tailor like super-tailor like super-tailor like super-tailor. The rather like super-tailor li

Junior School teacher whilst the

Befresh" is so such cheaper and I found it so easy. However, the results, though satisfactory, are not nearly so repressive as the "Maxigrint" device. For the anateur, therefore, with a low rate of ribbon usege, I would recommend the Caspell can, for here one would need to buy only five or un new ribbons before the breek - even posint was reached. However, if you are a fairly twenty), like a small business office, or a teacher in a conquiter - sware school, and particularly if you need an expensably good lepression or it you use an awiful lot of graphics, then the "Maxiprint

Subbon Se - inker" rould suit

you better. EDITORIAL COMMENTS:

1 threnht that the background of what to avoid is good. One way to test ink for whether it is oil based or water based is to apply a tiny amount to a jar of water and shake it up. The water based will dye the water uniforaly while the oil based will fore droplets of the ink and nil. Paul Holoren has told ne of re - tekson ribbons by using a piece of plastic and holding it folded over the ribbon and then using an electric screw driver to run the rabbon through the plantic with ink on it. I have tried that but it weens that I need another hand to do it. That way does not require opening the ribbon that big a deal with the ribbons for my Epson LX818, What is needed is a way to bold the enture assembly including holding down the switch on the electric screedriver. 1 have heard of using mineral oil and also MD46. Once in the past 1 got a bettle of re - inking ink from RMS but looking at the ink I have heartated to try it

since I could be weeks getting the ank off of stuff that was not to be anked. If interested in that the next the you order from RMG ank ROD Down about the ink NA

REPORT NOTICE TO GL-ERG!

I have a great problem? I do not have a G so I can not even by the solution of the solution of

Besides 1 am still learning to use the T/S 2868 and the T/S 1888 when and if I have one set up. I would like to have one of each kind of T/S computer (including the OL) with each disk interface set up and running at all times so that all I would have to do is lift the dust cover and turn it on. But space prevents that dream from eaterializing, 1 currently have a mair of T/S 2868s set up. one with the dual Larken/Oliger disk interface and the other a ours the Sportrue COSCH (netalled on the dock board.

No you Care send in sceething, what eavy en clicktuff to you might be just what someone else warts form you can, longhead, types, ran off on a prainter, on different you can, longhead, lypes, ran off on a prainter, on different war land to the TMS 2008 (3.3 700K, 5.3 700K, 5.4 70K), and the country of the total processor field disk (in the mentioned misses) can be considered to the country of the country of

ou might have noticed, the last tune of Sir Olive was in a different format as well as a few errors that creet in due to the rush. to cut it out on teme. Bob Sweger who did a commendable editing job, can no longer northern this task because of his other commitments (3 novolettes, a full tree yels, a wife and a despiter that talk back and a set too). Dom Lorebert and cronolf are presently producing Sir Olavo, then Bob years the copeer for me to med. There is no one to odd and spell sheck Deer's articles they are what comes out of his number. Den doorn't care about the spelling arryway, regie Don? We will do our best to here Sir Older Alber, If you can contribute with an article, a query or a solution to a

problem, picase do se; the well is not dry as yet. As Les Controll puts it in his article in the following pages 'Did You Know?' "that if you all share your tips, we could all News Item

henefit from st."

Dundes, Scotland - Timex Corp. and Sunday it had that down in factory in Dundee, Scotland, following one of Britain's most bitter industrial coefficie of occust years The factory made printed circust boards for decrees cookers (microsque creas/). The Company producted the closers two months seo. On Sonday, a spokerman announced the factory would not comen Monday morning He added that Times "deeply regrets codern City." The plant, which had lost \$10 million (\$15 millions) over the past see years, was the some of apportune volent demonstrations by looked out workers anery over cost cutting cificeta

Keep'em comina

Jeffrey Kuhlmann CMR416 APO.-Although Mr. Lambert does not have a Cit. 1 was referred to him when I bought misse, and be was extremely helpful." "Is is great to see newsletten still devoted to the Swelars." "I look forward to seeing my first must?" Duniel & Chatton Custom Audio

Works of Oh MA > "I have been sevolved with the Similar computers for some term new 1 built the original 7X81 lot and have the water drive. Memospeh havboard as well as a best of other Mamotech add one My main computer to still an expanded CIL (640K.) with two 3" 190K and two 3.5" 720K drives as well as one 5.25" 3600; drive.

Dane Stegman of Akron NY - "Would you please send me a sample issue of your Nemaletter " "I believe, I moste to you a couple of years ago ... never got a sursplic Surry for the propreciones, I did most you on muse back then, according to my records. It most hose here for in the man! He did receive the last issue and he is a new yearshee

Louis A. Simon of Bridgsport CT - "I am a few miles from where the TS2068 was made We had a would more proup but they broke up right after the SYNC Mag, and others folded up. 1 com a ZX81, TS2068 and a Qt." "I enion acquiring a good program written in BASIC and I by to improve the eronram." "Thank you for the tips It has helped me et resulting out the excellent 1stClass DataPower Managere I can point the LESTing but not the graphece." "I see by an article that I was not alone ecting sosked by Mr. Boleven they cashed my check and inquires went unanswored." "They advertised in the UPDATE Mag selling their nicel, I endered two tiens." It is rumored that one of our dealers is taking

over the SystePower sqbmare.

Re-Inking Dos-matrix Ribbons

(many 9 in this issue) My little article on re-enking that appeared in the Fall 92 store of Sir OLivel, did not many asserts more any old tell, but did specify to use printer ink (which is oil based) The intrine can be very messy of not carolist, but the link can be removed using hand elemer such as even as used by our mechanics or a paint thinner for that matter I have been re-inling. and (minoral) oiling my ribbon for the last 15 months or so with popularit results. I could not see paying Radio Shack \$9,95 for a ribbon cartridge about a quarter the size of modern curtridees and lasts much loss. In fact I installed a proce of spongs that rests against the ribbon inside the costesion and cooked it with tell. It was the ribbon as the ribbon passes and rube

Treasury Notes Supporting T/SNUG

acainst it.

Alvin Albrecht 92
Peul Anderson 593
Roenald © Betry 633
Diave Bennsttl 203
Diave Bennsttl 203
Diave Bennsttl 203
Diave Control 603
Diave Control 603
Januar 603
Januar 604
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≥ Heltome, New Members

As of September 29, 1993
we have a balance of \$470.33
Abed Kahale Treasurer
The Timex/Sinclair
North American User Grouns

INEXPENSIVE Z-88 PARALLEL TO SERIAL CONVERTER

have mentioned before of my resistance to paying more for an demtion I think it's worth.

If that this is well as the price of committy of the disk way about the price of committy of the disk way about the price of the committee of

9644 Qualwood Tr. Spring Valley, Ohio 45370 (513) 385-5999

They call it the Pilot Struck Library. The cost is £230 3 (you genein provides +5 with D.C. on jus £16 of the printer contention, a first of them for the Control, they already a wall pilot power supply. It has a boad rate many from 20 to 1920, submished by a saithfulf II content with DNS jus, which will have to be converned to £130 of the saith to hook up to the £240 s sent just the will be after the converned to £130 of the saith to hook up to the £240 s sent just the will be after the control of the will be after the

persons the plants can by carefully priving it sport at the seam with priving it sport at the seam with secretary flat a small secondarie. You'll have to do this because the people who put these superfix defit classres wire location wishly. Once you're unished holding the case with the priving consocter and away forms you, which to the surely care estimates and thread you will not the force view of this terral cash and and the force view of this terral cash address the first of the contract cash and the force view of this terral cash and the first firs

ngle away from the SCR, then they on to the DB-9 connector as follows.



Wins #1 — DB-9 pm #2 Who #2 — DB-9 pin #5 Wire #3 — DB-9 pin #7 When this is done and you put the

plastic case back together without cataling the wires on top of the band rate selector, you're in business.

The DB-9 connectors sold by Ratho

The DB-9 connectors sout by Rhito Shack (276-1403) have good hardware for capturing the wors. You will have to get the pur crimping tool.

Before you by to prist out with ...

pin consupration you by the print out with ...

Fig. you should first make star you selected
the 9600 band rate on the panel. You
there by keying [] is. Then, of course, you
select that on your likes threat, also
I freed the wore this unit in thereof

gain as the way of any paper path so I get a cable ordension to get it cut of the way. Do not use on extension to get it cut of the way. Do not use on extension to aget in 24 mbo. 4 mbo. 4 mbo. 4 mbo. 4 mbo. 4 mbo. 5 mb. 6 mbo. 1 mb. 2 mbo. 2 mb. 2 mb.

TIMEXERS CAN SURVIVE WITH HELP

SURVIVE WITH HEL

The Tasman 'B' CPI

Make it Work With the LarKen DS-400

George Charabers werds to say: "We have been looking at the possibilities, in reasonablement, of modifying the Tamon 18" printer insertance to make it completed with the Larke on the Carlot of the C

Here is the answer on how to use the Tanson 30° CPI frees Lawy Kenny himself. The problem is not really a per conflict instead, the problem is not really a per conflict instead, the problem is that the Tanson 30° CPI is not completely decided. De Tanson CPI is not completely decided in the Tanson 30° being loaded in by the CPI is come to this constance of the mentione colly included in the first two numbers of an address and gave the affect when the conflict of the conflict

Larry freezed fits ARECO CH because it completely doctored to address but, but he ranke provident for Tawaran ¹⁹T. A. 8.3 and others of they were modeled. I file the Tawaran ¹⁹D. A. 8.3 and the pricter from 0 to 255 and the ARECO cart. Set I have modified my Tawaran ¹⁹D. Charlessa Return conjusted by the man my Charattana Return Libel prospure. It should be proted that that fix well not event for the

Tamme 'A' or Tamman 'C'.

To make the Tamman 'B' CPI work with the LarKon daik System, sequire a

southed bool-up new Cypen for Tamena-19° CFI by first centrifus posing both paties label seasy from the sames (if you pain up the most centilly with an X-ray late, the label well press bank over the stress when yet any depar without even a worshe's Jiezuwe the first scores that belief the case together and open the cine. Events the PC board to be certain that you have, a "If venture Tamena CPL. It is a "I" if it is labeled "VISISON III". Not, make the brace cut of AG on the

oding connector with the XACTO losts. Now follow the rost of the instructions Lawy has given in in the diagram. When you are fished, carefully check all connectors against Lary's dagram (next page). I don't, and half to go back to to fit my problem. Praisby, clear the case and press the glistic label back into place.

Next follow the unstructions in your Next place.

LKDOS manual to select the Taumun printer driver rather than the AERCO.

As for the peri addresses of the LarKen.

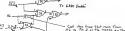
As for the port addresses of the LarKensystem, I don't know them, but here are the CPI addresses from 'The Best of SUM', the spenistrot-termed-majaters of the Gishnollis Sinclast Usens Group by Joe Williamson and Richard Crawy."

PORTS

| Type: | IN | OUT |
|-------------|-----|------|
| AERCO | 127 | 127 |
| Tasenan 'A' | 63 | 123 |
| Taoman 'B' | 191 | 123 |
| Tarman 'C' | 251 | 1.23 |



Tesmon B' modification: Perts model - 741504



Add this c underside of the PC Bornel.

Red Universel Oaks on 745.52.

- Bred all of the pins on the 745.54 up, (every pins 4, 7 ind 14)

Tand 14 to piest, 7 and 14 of the 1532, Solder pies 4.

2068/LarKen Tips That TASWORD files may

By Les Cottrei



be LOADed seto MSCRIPT? Assuming that both use, the CT extension and imbedded commands are not used the the will had early. There will

be some cleanum required since TASWORD doesn't use carriage returns. Some words will end up run together and there will be extra unarres in places but it is relatively easy to fix with MSCRIPT 'insert space' kev(1). 'delete' key(i), and 'delete left' key(9).

TASWORDS The commonion inn't quite as pary as above, but it can be done, MSCRIPT uses capriage rotum (ENTER) and they will show up in TASWORD as the emobic found on the '8' key. That is your clas for the bottom of the document and come up, the paraments can be separated using 'import line' (SS-AND). The next step is to delete all leading seases for any line. Then the naragraph can be reformated with 'reformat to end of paragraph' (SS-STIO's The namerach will probably have some soft words. delete extra enaces there and reformat seein if necessary. (TASWORD's 'what-you-see-inwhat-you-get' formst makes the load into MSCRIPT paylor than vice-versa.)

. That Larken version 3 more can save a block of disk space when savene Artist II by

1 REEP 1. 1: PAUSE 60 Easter GOTO I and pross the NMI button when the Iron REEP ends reess the SERFT

and I. Version 3 comers can then rename the MOVE WALSTON: "WEERS"

or whatever name saids you, I use the or the to reduce NMI saves a the change from C to B extension avoids addess 'CODE' I imagine there are other programs that can be done that way. It also gives you a clean bottom line when

the lead is completed · That if was lead a recovery with machine code with a "O REM" statement that you shouldn't use the OPENIA, "dd" command? BataPerson recorress often use "O REAC"

code, so don't blame the program if you have used a 'boot' program with OPENF 4. The solution is as simple as semoving 'OFENS' 4, "4d" and replaces: "PRINTS 4" with S VALUE LIES 100, Peach ares to CLOSS# 4 down't reache this problem. This one is in the Larken instructions (but I forgot). every so often

4. That version 3 owners can make any proeven nesses with the NMI button after instation the following one lines: RANDOMEZE 1988 100 POKE 16100 201: RANDOMIZE USR 100 POKE #214, 16100 The program peaces when you press the NMI better and may be resurred by

pressing the "F" key.

. That version 3 users can re-hoot from within any program with the NMI-F fasture? This assumes you have an AUTOSTART energy written in RASIC on your booting drive. After writing the pouse routing above to stop a program with a countdown clock, I started considerate other warm to use this slover feature. I had been adding the GPC rehave residue to not RASIC necession, but many MC programs still required tarring off the computer. By installing the following routine in sty RAMDISK boot program I can now on-boot farm any program.

The heart of the program is filled from the institutions in the Larden Disk Taken hashestoom Marial. Once the program is LOADed I service years to RNII betton, then it "F loy and my RAMDISK is obstical and bested. Divisionly the program can be SAVEA dedictorized by all regs from year means or as

independently and ren from your ments or as you shoose.

The first number in fine 5 determines which drive is selected.

Drive 0 1 2 3 4 Code 2 4 8 16 128

This program is numbered so that it can be merged between lines 0 and 10.

1 RESTORE 4
2 FOR a = 16160 TO 16164
3 READ by RANDOMIZE USE 100 POKE

3 READ b. RANIXMEZ USE 100 PUSE, \$1 NEXTS 4 4 DATA 123, 205, 96, 0, 62 5 DATA 128, 50, 3, 32, 0, 0, 0, 0, 0, 33, 27, 63, 17, 34, 32, 1, 10, 0, 237, 174, 62, 11, 50, 2, 32, 205, 198, 0, 42, 124, 32, 34, 51, 32, 2, 134, 23, 34, 49, 32, 205, 201, 0, 62, 109,

251, 201, 0, 0, 0 6 DATA 65, 85 84, 79, 83, 84, 65, 82, 84, 32 7 DATA RANDOMIZE USR 100: POKE 8214, 16000

#214, 16300

BREFP -S, -S, PRINT "NM-F RESOUT ACTIVATIO": PAUSE 160 CLS

For a stand-alone program you may add the following two likes on RANIXAMIZE USE 100 NEW

900 RANDOMZE USR 100 SAVE
"booker.B1" LINE 1

That if you all share your tips,
we could all benefit from it!
Les Cottrell Cocoa, FL

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